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Linear Motion Report – 2024

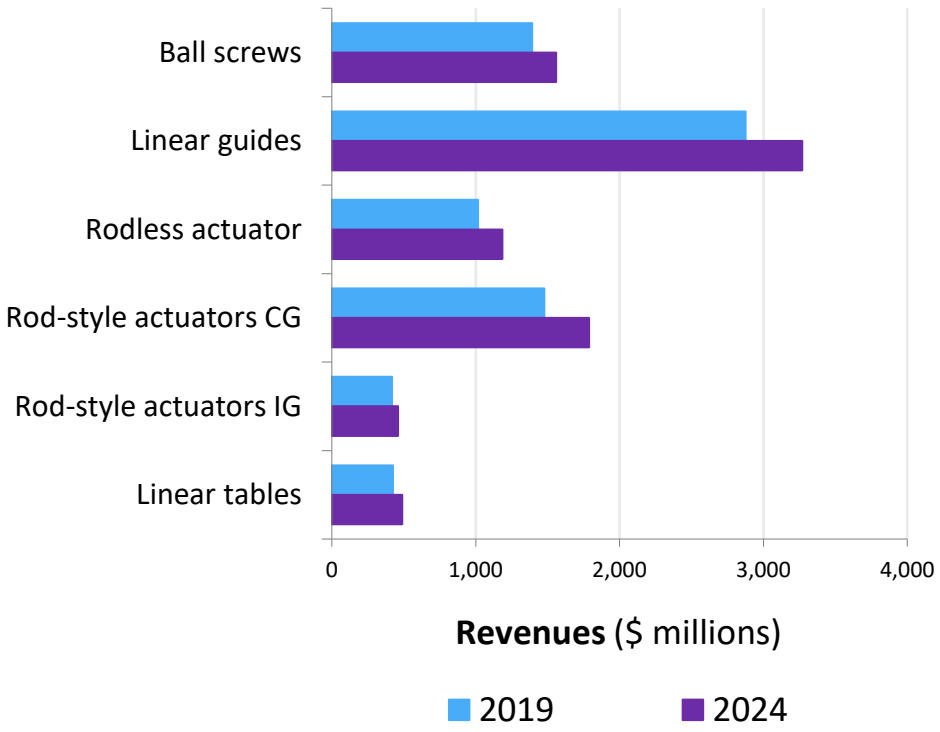
Part of the Electric Motor Systems Service Area Coverage

Monitor and analyze important trends, gauge market shifts and make informed business decisions.

Linear Motion Report

Part of the Electric Motor Systems Service Area

Global market for Linear motion products by type



Data issued: January 2021

Source: Omdia

HOW OMDIA HELPS YOU

- Sizing of the linear motion market by…
  - Region
  - Industry
  - Accuracy grade
  - Actuator and motor type
  - Dynamic load
  - Linear guide type
  - Ball screw diameter
  - Market share by product

KEY QUESTIONS ADDRESSED

- Updated statistics on the size of the linear motion products market in 2024, both in terms of dollar revenues and unit shipments for each product type.
- What role does Industrial Internet of Things (IIoT) play in the linear motion market?
- How will economic indicators affect linear motion suppliers for the next five years?
- What are the major trends from the point of view of customer demand and how are manufacturers responding?
- What companies are the market share leaders for each product type analyzed in this report? How have merger & acquisition activity, new product launches, and other strategic announcements affected the competitive environment?

Linear Motion: Research Coverage

MEASURES
- Revenues
- Shipments
- ASPs
- Market shares
- Key trend analysis

PRODUCTS COVERED
- Ball screws
- Linear guides
- Rodless actuator
- Rod-style actuators CG
- Rod-style actuators IG
- Linear tables

SALES CHANNEL
- Direct to Machine Builder
- Direct to End-user
- Direct to Systems Integrator
- Via Distribution

INDUSTRY SECTOR
- Automotive
- Consumer
- Electronics & electronics Assembly
- Food, Beverage & Tobacco
- Machine Tools
- Materials Handling
- Scanning and imaging
- Mobility and patient handling
- Lab automation
- Treatment
- Other medical
- Mobile Off-Highway
- Agriculture and construction
- Printing
- Packaging & Labelling
- Paper & Paperboard
- Renewable Energy
- Robotics
- Semiconductor machinery
- Textiles
- Transportation
- Woodworking
- Other

REGIONS

EMEA
Austria
Benelux
Denmark
Finland
France
Germany
Ireland
Italy
Norway
Portugal
Spain
Sweden
Switzerland
UK
Rest of Western Europe
Poland
Russia Federation
Rest of Eastern Europe
Israel
Turkey
Rest of Middle East
Africa

AMERICAS
Brazil
Canada
Mexico
United States
Rest of Americas

ASIA PACIFIC
China
India
Vietnam
Malaysia
Oceania
South Korea
Taiwan
Rest of Asia

JAPAN

Linear Motion: Research Coverage

TECHNICAL DATA

ACCURACY GRADE

Ball Screws

- 0-3
- 4-6
- 7-10

Linear Guides

- Ultra precision
- Super Precision
- Precision
- High Accuracy
- Standard

BALL SCREW SIZE

- < 10mm
- 10.0 – 16mm
- 16.1 – 32mm
- 32.1 – 63mm
- > 63mm

LINEAR GUIDE SIZE

- < 15mm
- 15.1 – 45mm
- 45.1 – 55mm
- 55.1 – 65mm
- > 65mm

ACTUATORS DYNAMIC LOAD

- 0-0.25 KN
- 0.26-0.5 KN
- 0.51–1 KN
- 1.1 – 5 KN
- 5.1 – 10 KN
- 10.1 – 100 KN
- >100 KN

ACTUATOR & LT MOTOR TYPE

- No Motor
- Stepper
- Servo
- Induction
- Other

LINEAR GUIDES DESIGN

- Miniature Profile
- Profile Un-caged Ball
- Profile Caged Ball
- Profile Un-caged Roller
- Profile Caged Roller
- Round Rail
- Cross-roller linear slides

BALL SCREWS DESIGN

- Ground
- Rolled
- Satellite Roller

RODLESS ACTUATORS

- Ball Screw
- Belt
- Lead (Acme)

LINEAR TABLES

- Ball Screw
- Belt
- Lead (Acme)

ROD-STYLE LINEAR ACTUATORS (CG)

- < 10% Duty Cycle
- 10 – 70% Duty Cycle

ROD-STYLE LINEAR ACTUATORS (IG)

- > 70% Duty Cycle

Linear Motion Report: Our Expert Analyst

Jessica Nian

Senior Analyst,
Manufacturing Technology

As part of the manufacturing technology team, Jessica covers the global motion controls and AGVs sectors, with a specific interest in the manufacturing 4.0, digitalization and 5G research.

Her main research interests are in the motion controls and AGVs. Jessica provides analysis of key developments of both GMC servo and CNC servo products. She also writes on adjacent developments in the AGVs market analysis, highlighting the future trends, growing drivers and market competitor landscape. Prior to joining Omdia, Jessica worked as a market research analyst at IHS Markit. She holds a degree in banking and finance from Monash University.

Electric Motor Systems

Analysts: Rachel See, Lisa Wang, Daisuke Muto, Jessica Nian, Joanne Goh, Zara Fennell, Nattalyn Teng

Service Area Package:
Electric Motor Systems

- Low Voltage Drives Intelligence Service
- Motors and Drives Vertical Application Intelligence Service
- Medium Voltage Drives Report
- Motion Controls Report
- Medium Voltage Motors Report
- Linear Motion Report
- Low Voltage Motors Report
- Gearboxes & Geared Motors Report - April 2023

About Omdia's Manufacturing Research

Omdia's Manufacturing Technology research consists of subscription services and reports that provide customers with reliable market intelligence on a broad scope of industrial automation equipment and related market trends. As the hardware covered by the Manufacturing Technology group continues to become commoditized, Omdia looks to present the story of how manufacturers are altering their business models in order to offer unique services and solutions.

This portfolio of Omdia's Manufacturing vertical aims to continue to provide a consistent view of these industrial automation equipment market. Identify and understand the latest trends, impact and drivers of growth; from motors and drives to linear motion, and mechanical components. As more end users embrace the benefits that can be attained through the Industrial Internet of Things, Omdia will continue to track the growth of connected equipment and how this will affect the competitive landscape of the manufacturing technology environment.

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